Role of Command Support Information Systems

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"Information Superiority across Defence"

Report Documentation Page

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The CSIS IPT:

- **Is a “cluster” IPT managing over 30 different projects,**
- **is “dual-accountable” to CDP and CE/DCSA**
- **was formed early in 2000 from (at least) 3 ex-PE Business Units**
- **comprises some 85 staff, civilian & military, mainly in Bristol, also at High Wycombe & Portsmouth,**
- **runs in-year budgets of ~ £65M for new capability and ~ £40M for capability support.**

Projects

- **Almost all deliver capability incrementally, major projects are:**
  - **Joint Operations Command System (JOCS)**
  - **RN Command Support System (RN CSS)**
  - **RAF Command Control Information System (RAFCCIS)**
- **Other projects include:**
  - **Lychgate and FOCSLE**
  - **Command Task Force 345 (SMBPS)**
  - **Pilot Direct Broadcast System**
  - **Joint Command System (Logistic)**
  - **UKINTELWEB**

The Headlines

Information is key to future warfare

Secretary of State Geoffrey Hoon stresses importance of 'network centric capability' in update on latest work on the New Chapter of the Strategic Defence Review

power. The gathering, processing and ... is comparable to the enormous impact ...

better individual capabilities.

The benefits on offer included:

- greater precision of control of operations, from the strategic to the tactical level, to maximise both their political and military effect;
- greater precision in the application of force – both to give it enhanced effect and to minimise accidental damage;
- greater rapidity of effect, whether disrupting the enemy at the campaign ...

NEWS

Information system in Afghanistan role

New capability allows rapid transmissions to commanders

COMMAND SUPPORT INFORMATION SYSTEMS

THE DPA'S Command Support Information Systems (CSIS) IPT has recently completed a number of demanding trials on the novel Pilot Direct Broadcast System (Pilot DBS).

Having completed a hot weather deployment to Oman late last year, the IPT conducted cold-weather trials in Goose Bay, North Canada – some tri-...

RIGHT INFORMATION AT THE RIGHT TIME: DBS in action

but classified – maps which pre- ... better management of scarce ...

Oman breakthrough for command system

CLOSE WORKING between the DPA Command Support Information Systems (CSIS) IPT and contractors provided a communications breakthrough during exercise Saif Sareea II.

The challenge was to provide a network which would allow controllers and umpires to see all data, yet to allow participants to see only their own data de-...

Network allowed segregation of data for friendly, enemy and neutral forces

COMMAND SUPPORT INFORMATION SYSTEM

cise controllers and umpires to see all data, the Blue forces to only see "friendly" data and the Red forces to see only the "enemy" information.

Thousands of e-mails were passed between command centres and airfields throughout Oman, to and from the UK and the ships at sea. The system handled over 1,000 internal addresses and over ...

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Network Enabled C...

Network ...

Interoper... ...integration

...vice Delivery

...t – Decide – Destroy

USAF Colonel John Boyd devised the concept of Observe, Orientate, Decide and Act (OODA) as a model for military decision making. following his experience in air-to-air combat during the Korean War,

capability? - what capability?

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This?

From sensor ...: NATO alliance-owned E-3 Airborne Warning & Control System aircraft helped the USA patrol its airspace after 11 September 2001

Sensors working overtime

The fast and accurate dissemination of data is **G**aining the ability to prosecute threats almost instantaneously by swiftly interpreting and distributing reconnaissance information has become a vital goal during recent cam-

BRIEFING

SENSOR-TO-SHOOTER CAPABILITIES

... to shooter: A US Air Force B-1B Lancer performs a low-level flypast for troops deployed for Operation 'Enduring Freedom'. The transfer of target co-ordinates to such a platform requires just a narrow bandwidth compared with the relay of streaming video

USAF via PN; 4127521

Control, Communications and Information (C3I) Systems. "The key to success for force multipliers is: 'Can you get this information to the soldier?'" Since late last year during Operation 'Enduring Freedom' in Afghanistan, imaging

endurance once on station; and the length of time required before approval is given for weapon launch. While the near-term availability of enhanced designs such as the General Atomics-developed Predator B medium-altitude long-

The armed RQ-1 Predator UAV, although an important asset in reconnaissance, is restricted by speed, weapons-carrying capability and time on station

US DoD; 1096216

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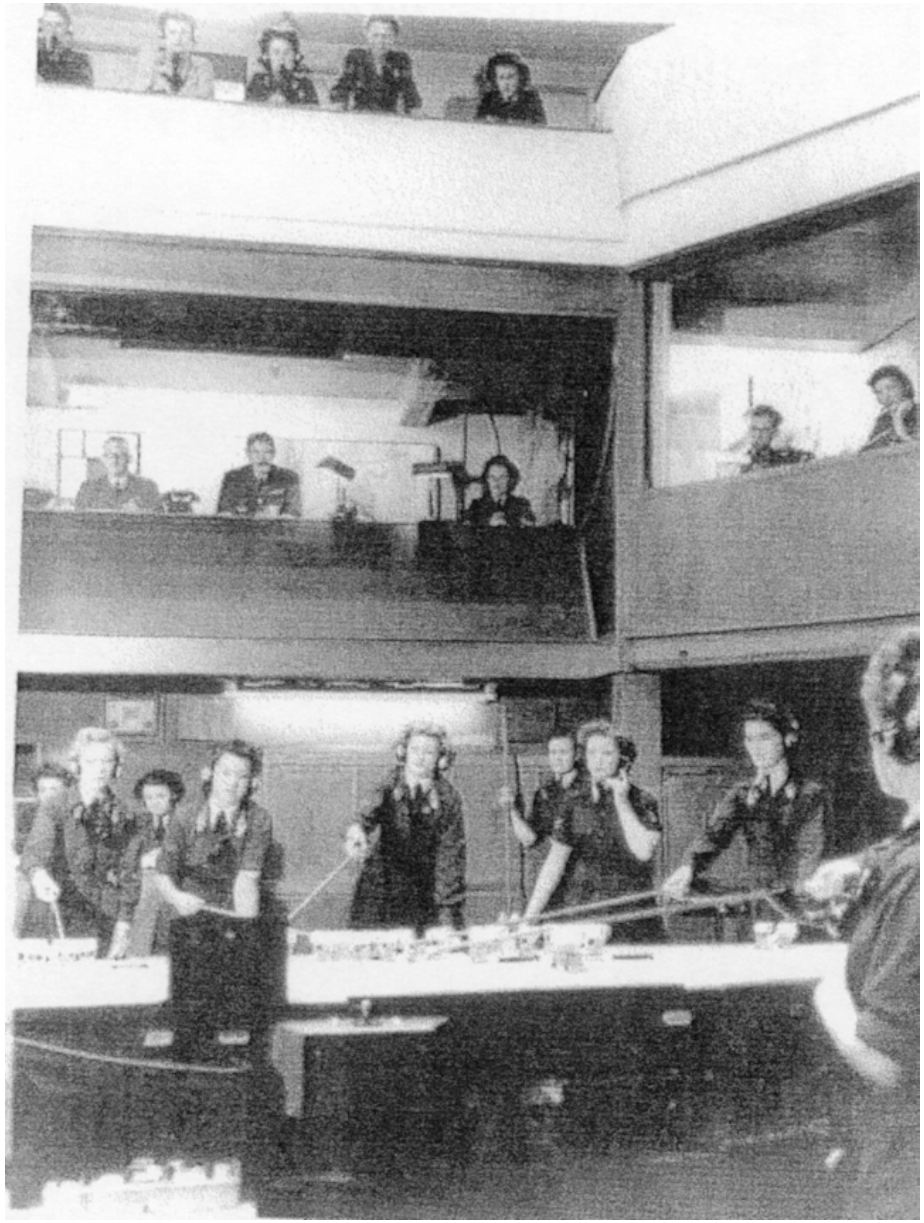
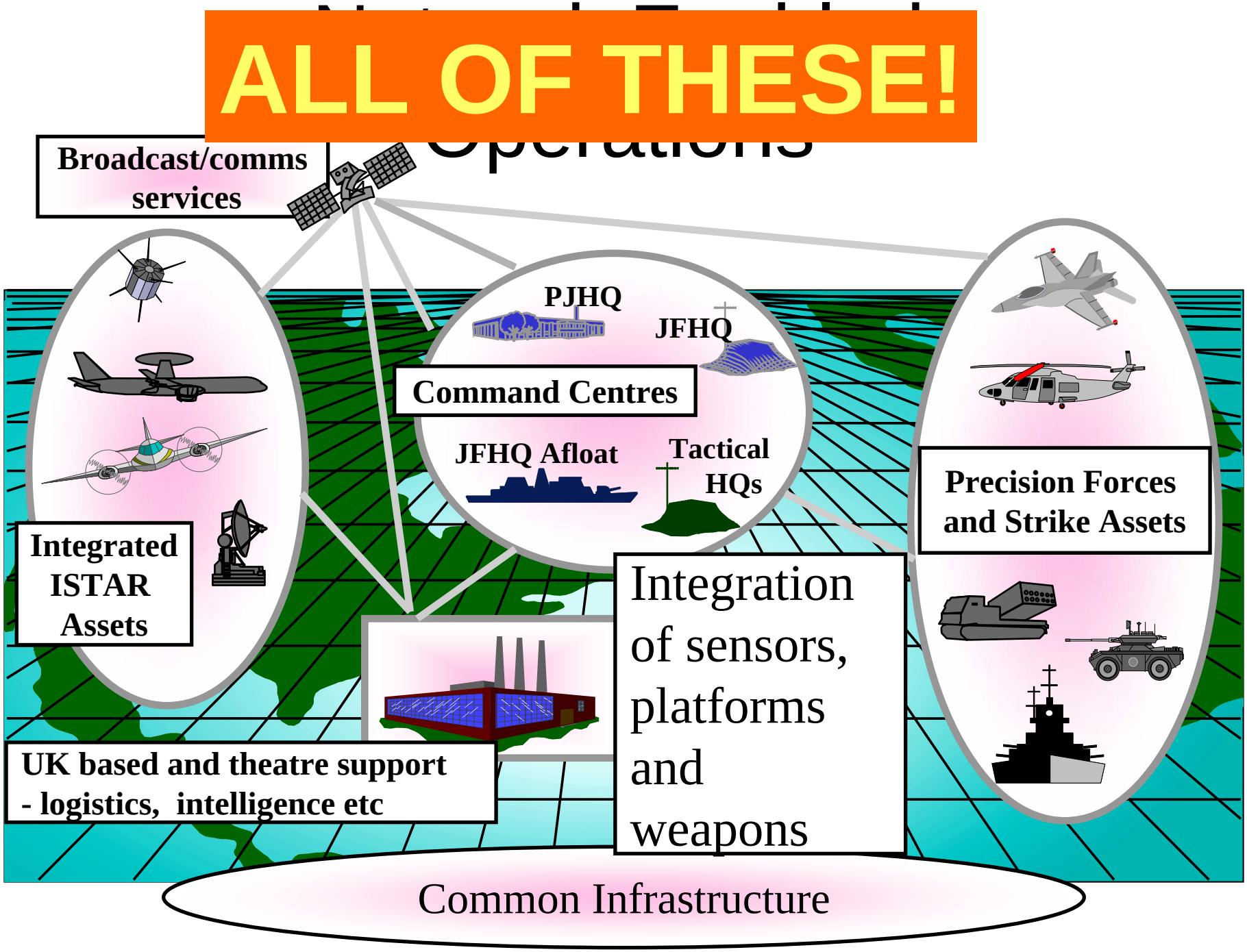
Or this?

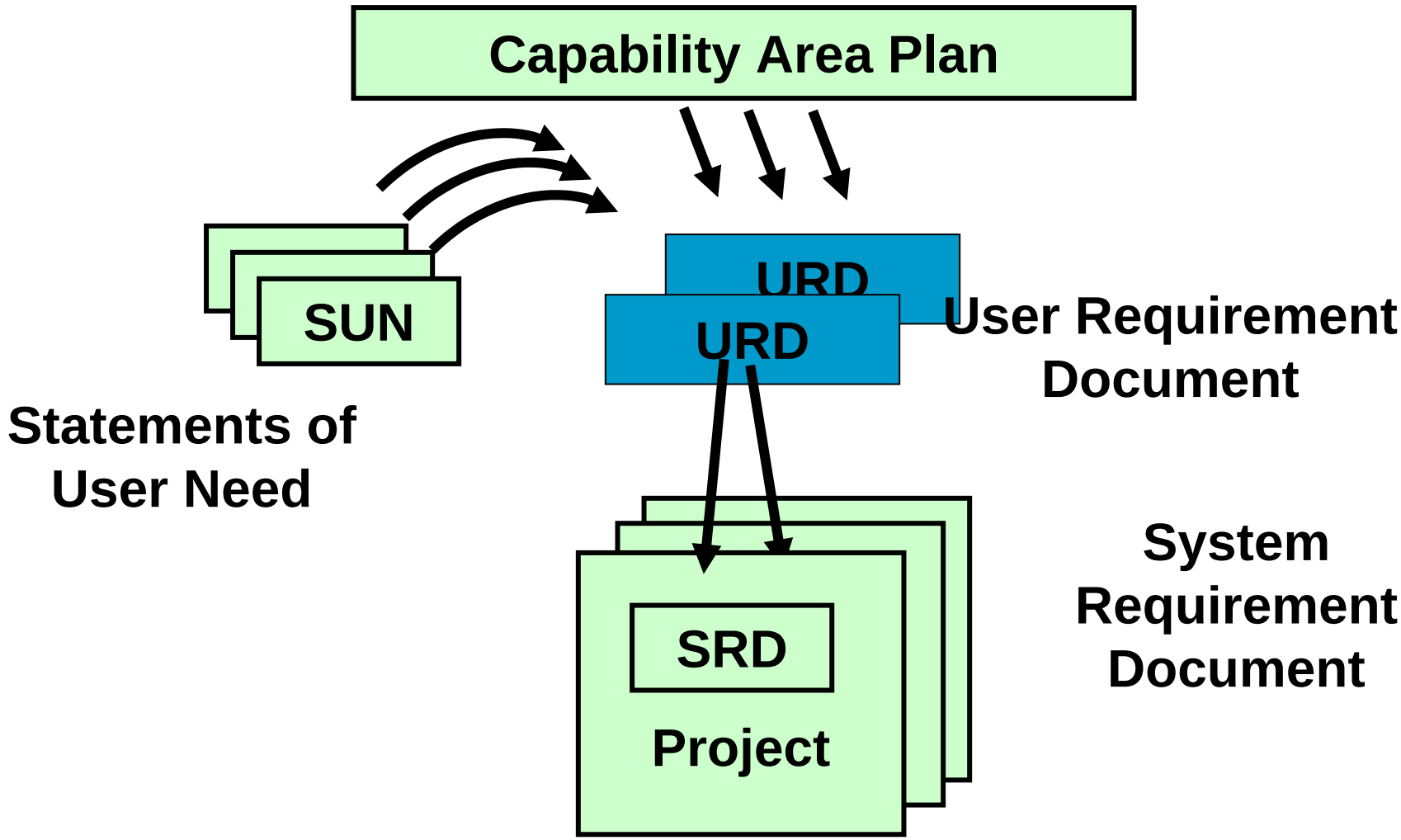
Or this?



ALL OF THESE!


Broadcast/comms services
PJHQ
JFHQ
Command Centres
JFHQ Afloat
Tactical HQs
Integrated ISTAR Assets
Precision Forces and Strike Assets
Integration of sensors, platforms and weapons
UK based and theatre support - logistics, intelligence etc
Common Infrastructure

Smart Acquisition:



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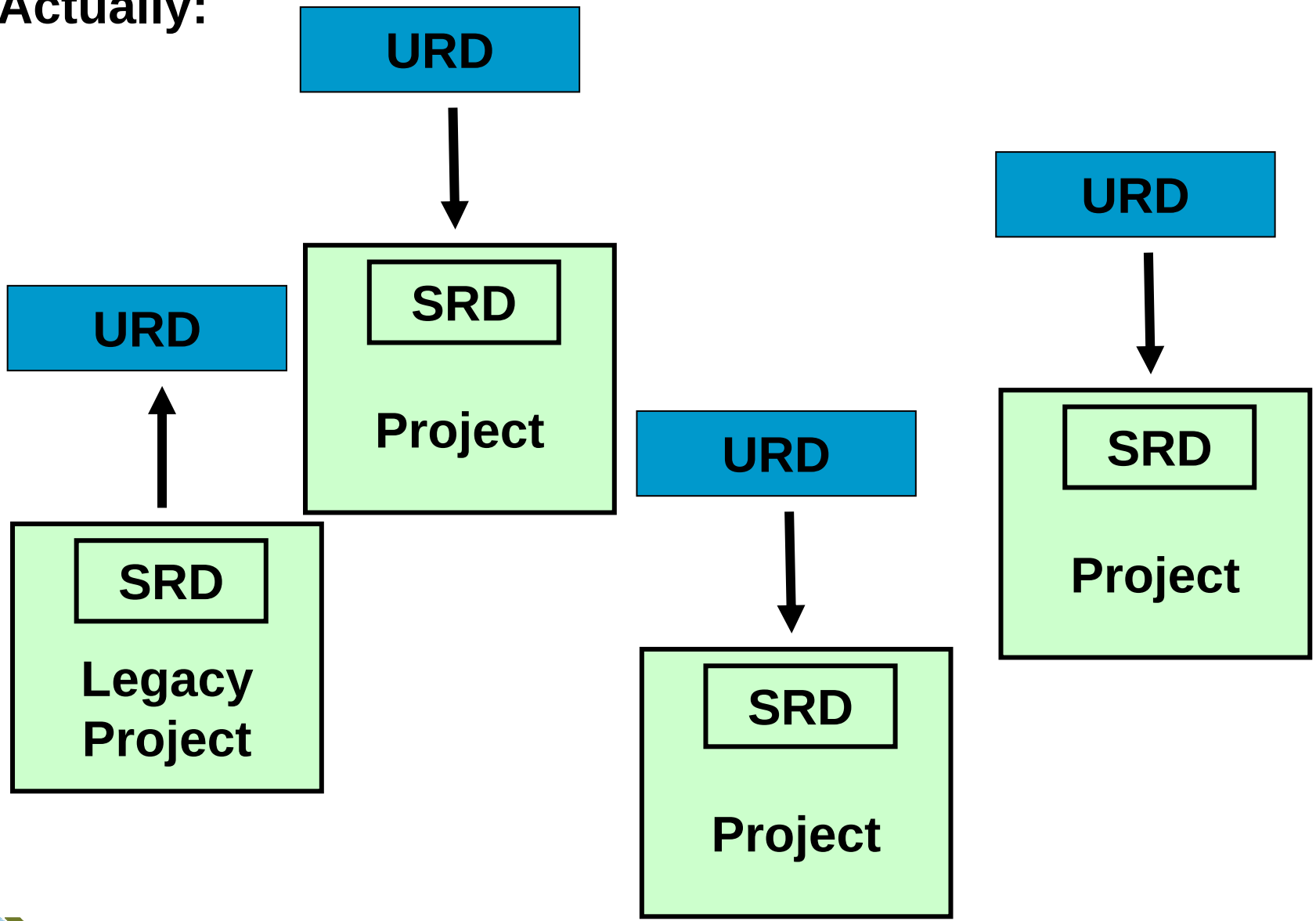
Actually:


URD
SRD
Project
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Legacy Project
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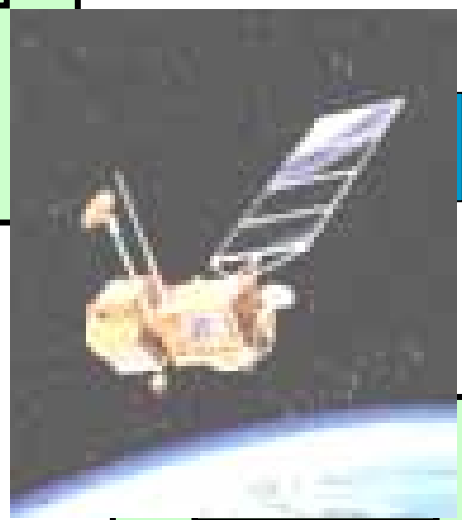
Project

Legacy Project



Project

SRD

Project

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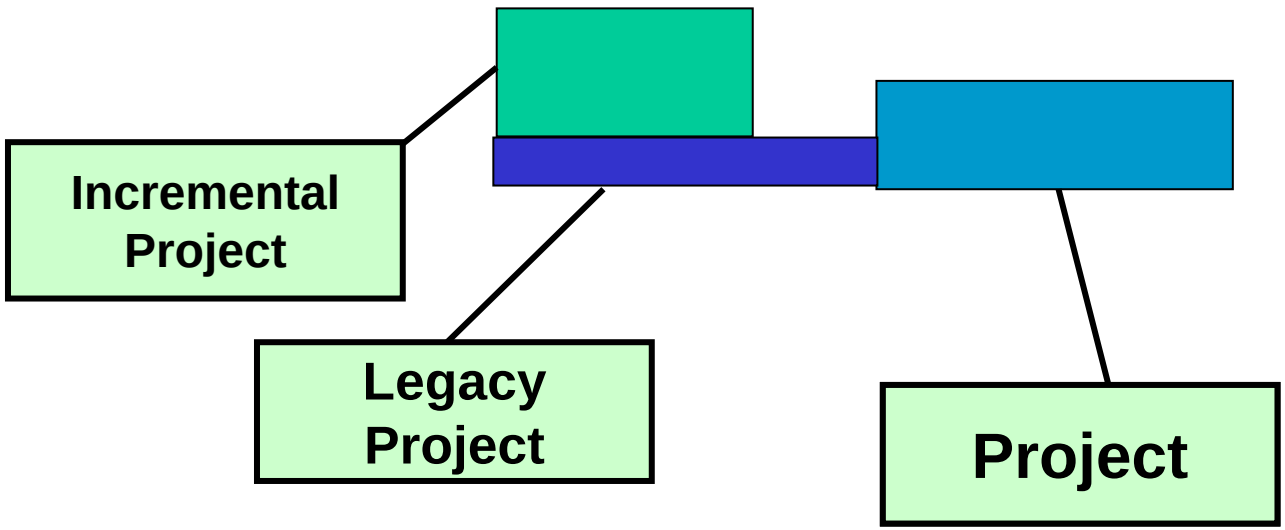
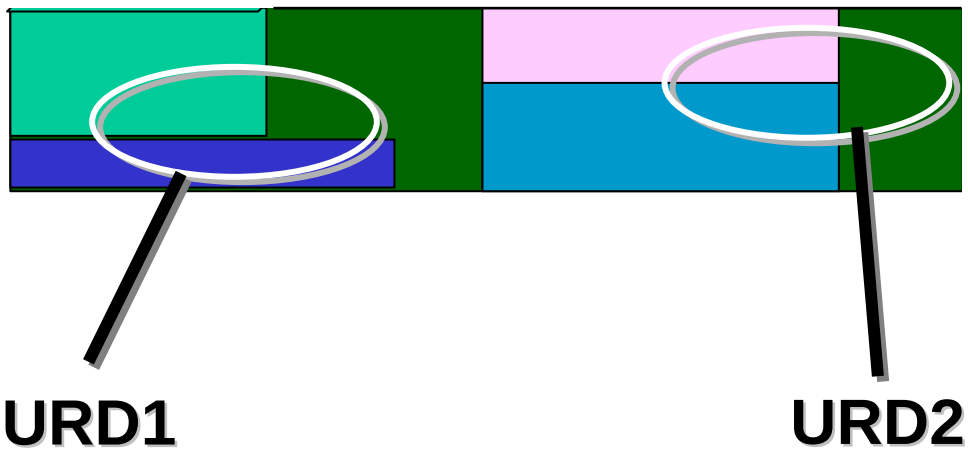
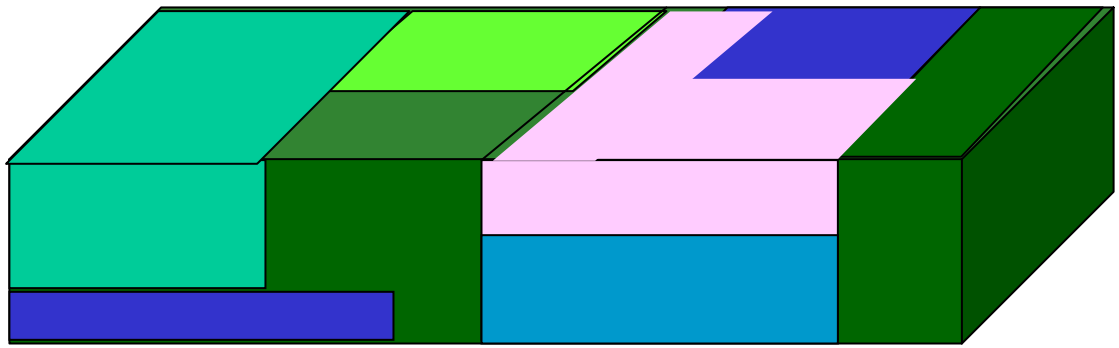
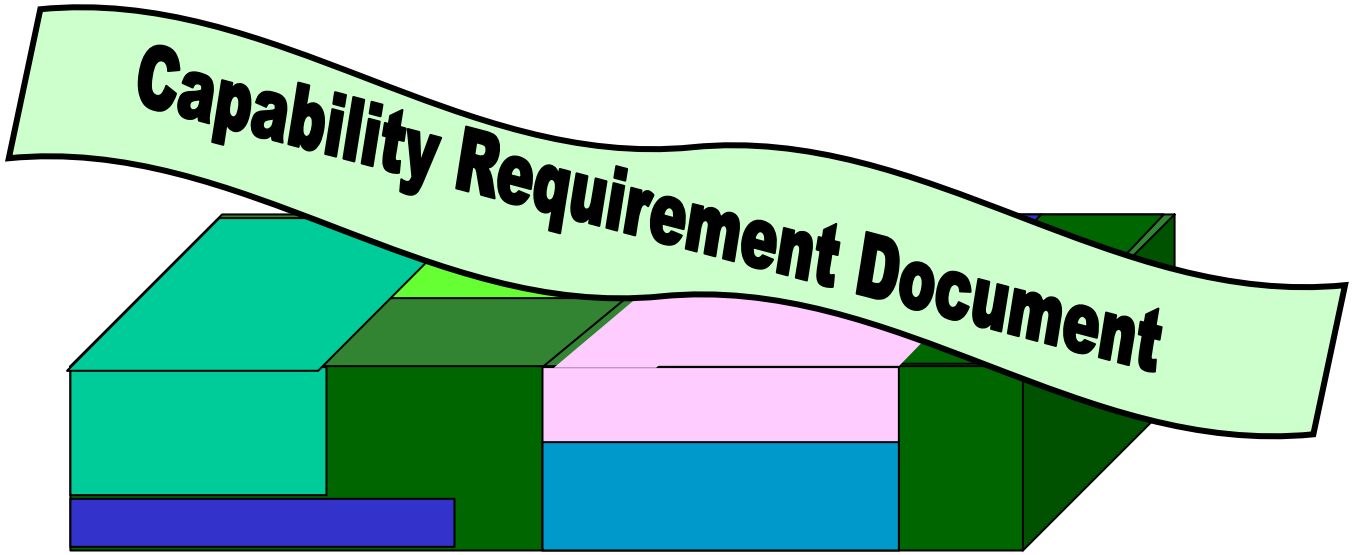

Incremental Project
Legacy Project
Project

The separate requirements are contiguous parts of a whole:





The requirement/project jigsaw is multi-dimensional and time dependent



Each consideration of new need or balance of investment Requires a slice through the continuum

So - What is capability?

From one end:

The capability to **strike** requires the capability to **find and identify**, the capability to **decide** and the capability to **communicate**

So - What is capability?

From the other end:

An **intelligence** capability is of little value if all it ever allows you to do is watch.

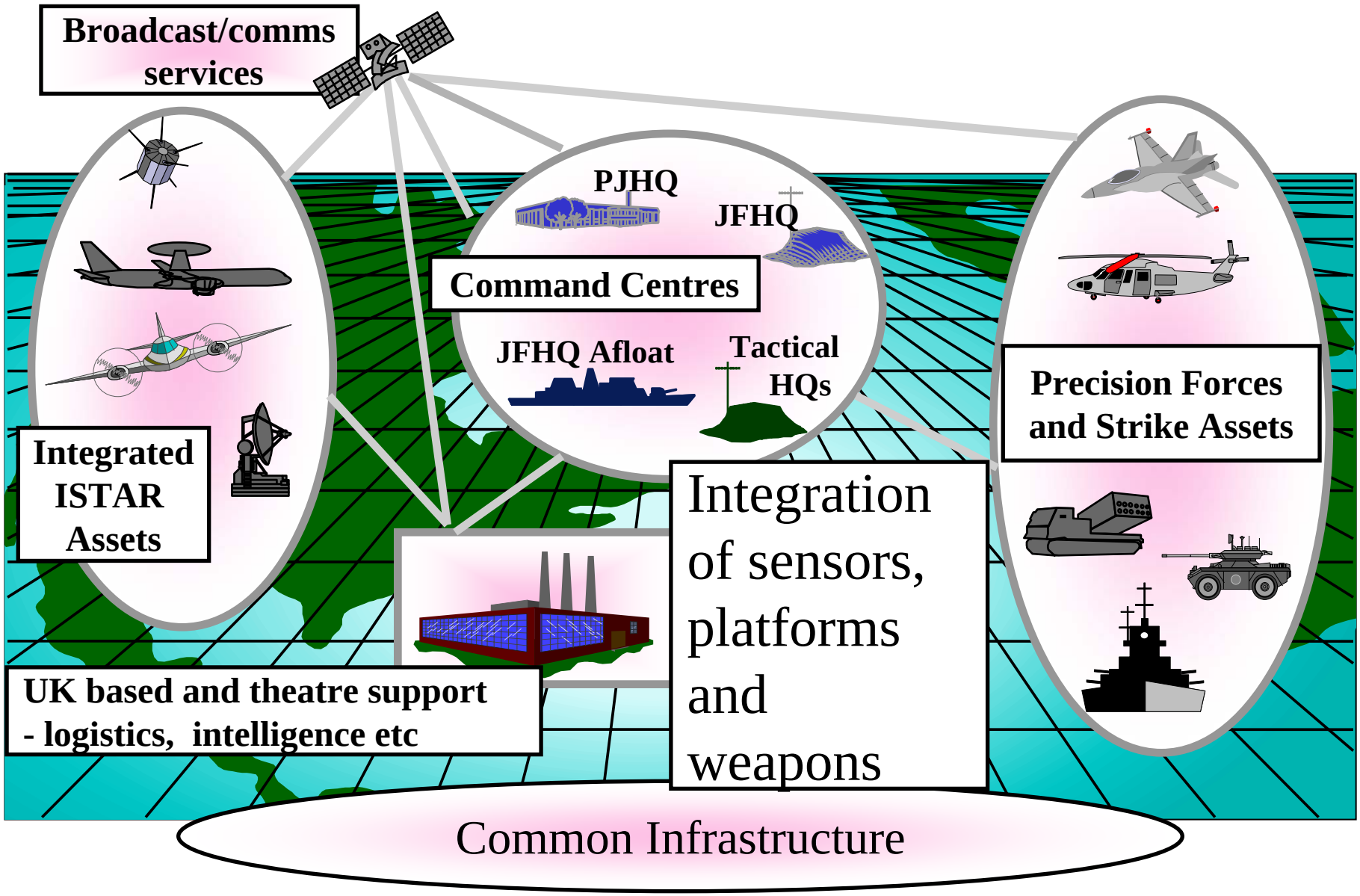
So - What is capability?

From the middle:

"If they seriously think they can push that volume of data through *my* system they're barking!"

"For the cost of a *single one* of those shiny pieces of kit they could have the best decision support IT in the world!"

The difficult bit:-

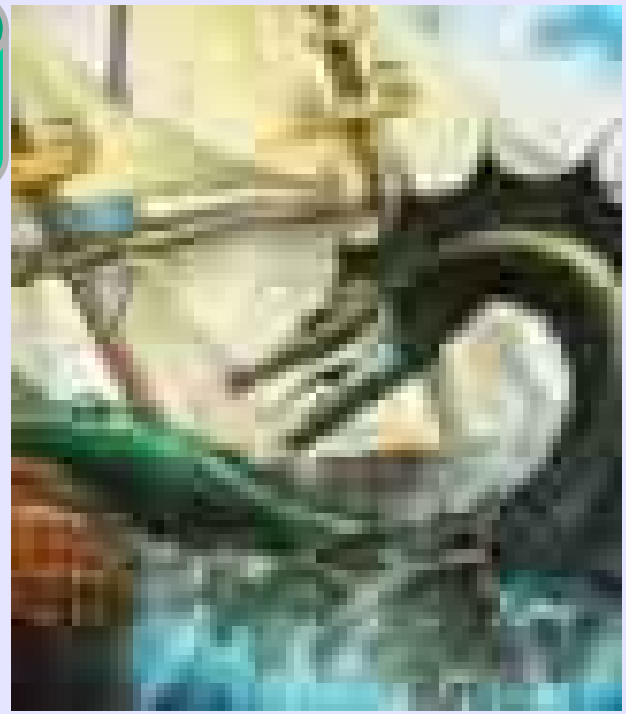


The difficult bit:-

If no project is an island:

- **Where do we take our slice?**
- **How do we set the boundaries?**

Here be dragons!



The difficult bit:-

If no project is an island:

- **Where do we take our slice?**
- **How do we set the boundaries?**

Here be dragons!

If we need the whole picture:

- **How do we capture legacy programmes?**
- **How do we balance investment to address real end-to-end capability?**

The difficult bit:-

If no project

- **Where do w**
- **How do we es?**

Her

If we need th

- **How do we rogrammes?**
- **How do we ent to address re ability?**

Here be Capability Managers!

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Exploiting Information for Command